



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Product Catalogue

AC Drives



ENGINEERING YOUR SUCCESS.

Parker Hannifin Corporation



Parker world headquarters in Cleveland

A global, Fortune 300 company with sales exceeding \$10 billion and over 400,000 customers worldwide, Parker Hannifin is the world’s leading diversified manufacturer of motion and control technologies and systems serving the industrial, mobile, and aerospace markets. We are the only manufacturer offering customers a choice of hydraulic, pneumatic, electromechanical, or computer-controlled motion systems.

Total Systems Solutions

Parker’s team of highly qualified applications engineers, product development engineers, and system specialists can turn pneumatic, structural extrusion, and electromechanical products into an integrated system solution. A comprehensive product range provides the components, subsystems, and controlled motion systems for the level of integration you choose.



1st in Delivery, Field Sales and Distribution

In today’s competitive, fast-moving economy, what good is an application that isn’t ready on time? This is especially true when compressed design cycles make the quick delivery of critical components essential. With factories strategically located on five continents, Parker offers an unrivaled delivery record, getting solutions out our door and onto your floor faster than ever. Parker also has the industry’s largest global distribution network, with more than 8,600 distributors worldwide. Each of these locations maintains ample product inventory to keep your downtime to a

minimum. And many distributors have in-house design capabilities to support your system and subsystem requirements. Throughout the design process, Parker’s factory-trained electromechanical engineers work hand in hand with you and day or night at 0800 C PARKER H in Europe. Our operators will connect you with a live, on-call representative who will identify replacement parts or services for all motion technologies.

Training

Parker’s best-in-class technology training includes hands-on classes, Web-based training, and comprehensive texts for employees, distributors, and customers. Parker also provides computer based training, PowerPoint presentations, exams, drafting and simulation software, and trainer stands.

www.parker.com

Industry’s most comprehensive web site is your single source for:

- Product information
- Downloadable catalogs
- 3D design files
- Training materials
- Product configuration software
- RFQ capabilities



24/7 Emergency Breakdown Referrals

The Parker product information centre is available any time of the day or night at 0800 C PARKER H in Europe. Our operators will connect you with on-call representatives who will identify replacement parts or services for all motion technologies.

Product Selector

AC PRODUCT SELECTOR		0	1KW	10KW	100KW	1000KW
Easy to use single and three phase open-loop and sensorless vector inverters		AC650/AC650V Series 0.2-90kW				P 4
Highly flexible open or closed-loop AC inverters with fieldbus interface options		AC690+ Integrator Series 0.75-1,000kW				P 6

Contents

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AC650/650V 0.25 to 110kW

The AC650 and AC650V series is a family of AC drives that provide a no-fuss, cost effective solution for the simplest to most complex open-loop AC motor control applications. The AC650 has single key selectable pre-programmed applications so set-up is quick and easy without unnecessary complications. In addition the AC650V has the added benefit of an ultra-high torque sensorless vector algorithm and the control flexibility of fully configurable Function Block Programming. Powers are available up to 110kW on 400V three-phase supplies and 1.5kW on 230V supplies and all units are available with integral EMC compliant filters.



INTEGRAL EMC COMPLIANT FILTERS

EXTREMELY SIMPLE SET-UP AND OPERATION

INTEGRAL OPERATOR CONTROLS WITH OPTIONAL REMOTE MOUNTING

EXCEPTIONALLY COMPACT DESIGN

150% OVERLOAD FOR 30 SECONDS

MOTOR THERMISTOR INPUT

PROFIBUS COMMUNICATION INTERFACE (AC650V)

TECHNICAL SPECIFICATION

Power Supply – Single phase units; 220-240Vac $\pm 10\%$; 50-60Hz $\pm 5\%$

Three phase units; 380-460Vac $\pm 10\%$; 50-60Hz $\pm 5\%$

Ambient – 0-40°C

Overload – 150% for 30 seconds

Output Frequency – 0-240Hz

Environmental Protection – IP20

Inputs/Outputs

Analogue Inputs – 2; Speed control (0-10V, 4-20mA)

Analogue Outputs – 1; User configurable output frequency/load (0-10V)

Digital Inputs – 3 (650V 6); User configurable start/stop/direction/pre-set speeds (8)

Digital Input/Outputs – 1 (650V 2); User configurable as inputs or outputs

Digital Relay Outputs – 1; User configurable relay output (1A @ 240V)

All outputs configurable for; at (not at) speed/at (above) min speed/running (stopped)/healthy (tripped)/above (below) preset load.

Motor Thermistor Input

Integral Programming/Control Module

6 Button password protectable keypad giving control of

- start/stop
- direction
- raise/lower speed
- menu navigation
- parameter setting

Back lit LCD giving 4 digit readout of

- output current
- setpoint frequency
- output frequency
- drive rotating warning
- status alarms
- drive ready
- overcurrent trip
- overvoltage trip
- heatsink overtemperature
- motor overtemperature
- I x t overload
- undervoltage
- 4-20mA signal loss
- stall trip
- external trip
- dynamic brake trip

Single Phase Controllers (230V Nominal)

Type	Nominal Power (kW)	Output Current (A)	Frame Size
650(V)-002-230-F	0.25	1.5	1
650(V)-003-230-F	0.37	2.2	1
650(V)-005-230-F	0.55	3.0	1
650(V)-007-230-F	0.75	4.0	1
650(V)-011-230-F	1.1	5.5	2
650(V)-015-230-F	1.5	7.0	2

Three Phase Controllers (400V Nominal)

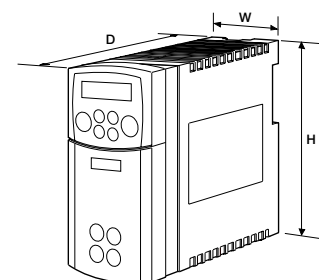
Type	Nominal Power (kW)	Output Current (A)	Frame Size
650(V)-003-400-F	0.37	1.5	2
650(V)-005-400-F	0.55	2.0	2
650(V)-007-400-F	0.75	2.5	2
650(V)-011-400-F	1.1	3.5	2
650(V)-015-400-F	1.5	4.5	2
650(V)-022-400-F	2.2	5.5	2
650(V)-030-400-F	3.0	6.8	3
650(V)-040-400-F	4.0	9.0	3
650(V)-055-400-F	5.5	12	3
650(V)-075-400-F	7.5	16	3
650VC-0110-400	11 (15)	23 (31)	C
650VC-0150-400	15 (18)	30 (37)	C
650VD-0180-400	18 (22)	38 (45)	D
650VD-0220-400	22 (30)	45 (59)	D
650VD-0300-400	30 (37)	59 (73)	D
650VE-0370-400	37 (45)	73 (87)	E
650VE-0450-400	45 (55)	87 (105)	E
650VF-0550-400	55 (75)	105 (145)	F
650VF-0750-400	75 (90)	145 (165)	F
650VF-0900-400	90 (110)	180 (205)	F

All 650 prices include integral (DISP) Operator Controls as standard

All 650V prices include remote mountable (DSPR) Operator Controls as standard

Dimensions

Frame Size	H	W	D
1	137	73	142
2	192	73	173
3	257	96	195



STANDARDS

The AC650V series meets the following standards when installed in accordance with relevant product manual.

CE marked to EN50178 (Safety, Low Voltage Directive)

EN61800-3 (EMC Compliance) with integral filters

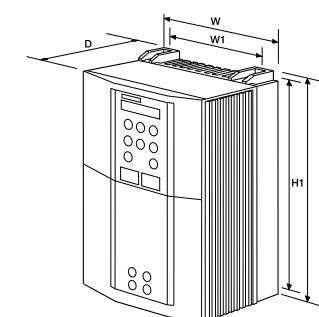
UL listed to US and cUL listed to Canadian safety standards

AC650/650V 0.25 to 110kW



Dimensions

Model	Overall Dimensions			Fixing Centre		Weight (kg)
	H	W	D	H1	W1	
Frame B	233	177	181	223	130	4.3
Frame C	348	201	208	335	150	9.3
Frame D	453	252	245	440	150	17.4
Frame E	669	257	312	630	150	32.5
Frame F	720	257	349	700	150	41.0



Frame B, C, D, E, F

LINK 2 – Fibre Optic Based Drive and Process Control System

LINK 2 is an ultra high speed distributed drive control system. It enables all machine control elements including variable speed drives, operator controls and plant I/O to be networked together to provide integrated machine control of unrivalled flexibility.

Communication speeds of 2.7Mbaud allows LINK 2 to operate a real time event driven deterministic network. Each control element of the machine or process is interconnected on a single noise immune fibre optic, which replaces the myriad of control wires traditionally associated with multi-drive systems. Typically savings of 50% in site cabling time and cost are possible with LINK 2 compared to a standard wired system.

Each LINK 2 system may comprise any combination of Parker SSD Drives sensorless and closed loop AC drives (690+ and 605 series) or DC drives (590+ series). Digital and analogue plant equipment can be interfaced onto the network via local or distributed I/O modules and a variety of gateway devices allow seamless integration with PC based control and monitoring packages.

The major component parts of a LINK 2 control system are described below. There are however many other interface and peripheral components available that help make LINK 2 the world's most flexible control system, so please contact your nearest Parker SSD Drives sales outlet to discuss your application in detail.

TOTAL CONFIGURABILITY FOR THE MOST ADVANCED MULTI-DRIVE SYSTEMS

NOISE IMMUNE FIBRE OPTIC BASED HIGHWAY

REAL TIME PEER TO PEER COMMUNICATIONS

FIELD BUS COMPATIBILITY

MODEM REMOTE ACCESS CAPABILITY

AC AND DC NETWORKED DRIVES

L5300 LinkRack

This high speed intelligent controller forms the heart of a LINK 2 system. There are 4 slots that accommodate any of the plug-in modules below in addition to the main processor and power supply (single phase 85-265Vac). The L5300 has been designed for DIN Rail or direct panel mounting.

L5392 Operator Station

The L5392 is a touch-sensitive LCD colour operator station with provision (in the rear of the unit) for 4 option module slots. The multi page operator screens are software configurable into 6 bands each providing any combination of the following.

- Operator pushbuttons, each independently configurable
- Potentiometers, displaying and setting setpoint and feedback variables
- Indicators, displaying variables only
- Machine status and alarm indicators

L5331 Digital I/O Plug-in Module

16 x 24V channel digital input/output module. Each channel can be independently configured as an input or output. All terminals are plug-in and easily accessed on the front of the module and have LED indication of the "ON" state. A high speed counter for encoder or other pulse inputs is available.

L5341 Analogue I/O Plug-in Module

8 x Input and 2 x Output analogue module. Each channel is bipolar with 14 bit (13 bit + sign) resolution. +10V and -10V power supply outputs are provided for use with external devices including potentiometers and transducers. All terminals are disconnectable plug-in types.

L5351 Devicenet Plug-in Module

Enables LINK 2 to be interfaced into a

Devicenet based system.

L5353 Profibus Plug-in Module

Enables LINK 2 to be interfaced into a Profibus based system.

L5321 Serial Link/Modbus Plug-in Module

Enables LINK 2 to be interfaced to Modbus or other serial protocol systems.

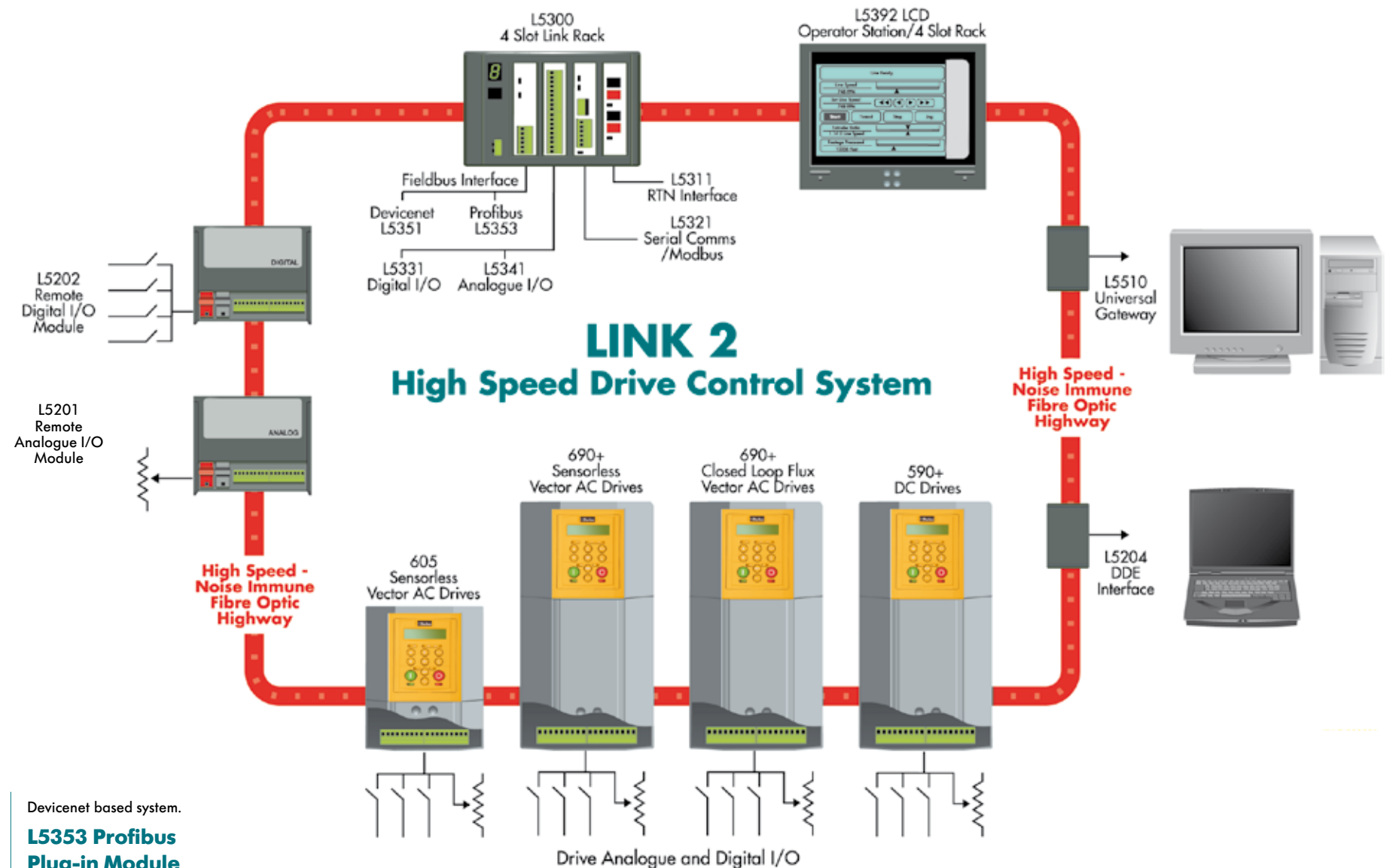
L5311 RTN Fibre Optic Plug-in Module

Provides input and output connections for the acrylic fibre optic link.

L5201 Remote Analogue I/O Unit

Remote module providing 5 x analogue inputs and 1 x analogue output plus fibre optic interface. Particularly useful for distributed control around the machine or process.

LINK 2 High Speed Drive Control System



L5202 Remote Digital I/O Unit

Remote module providing 12 x independently configurable 24V digital inputs or outputs plus fibre optic interface. Particularly useful for distributed control around the machine or process.

L5204 DDE Interface

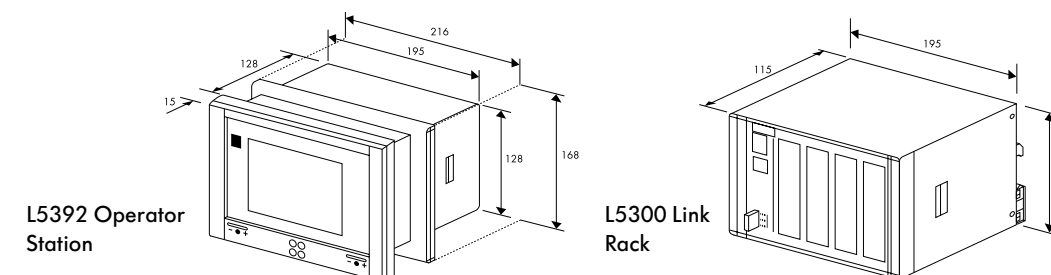
DDE Interface module that opens the LINK 2 network to any Windows based application including SCADA packages.

L5510 Universal Gateway

Universal gateway to additional Bus standards including Data Highway, Ethernet and VME.

DRIVE SYSTEM DESIGNER - Revolutionary System Design Software

Drive System Designer ("DSD") is like no other drive software. It actually designs the drive control system for you! You simply enter basic data on your process (line speed, web tension etc) and identify the function of each drive (unwind, nip roll etc) and DSD does the rest by selecting and configuring all the LINK 2 hardware and software. Full details on this unique software package are on page 64.



Feedback Devices



Microtach Type 5701

The 5701 microtach complements high performance drives and allows ultra high accuracy speed holding. The fibreoptic technology provides a noise free link in an electrically noisy environment.

STANDARD ENCODER DISK OF 1000 OR 500 LINES, OTHER COUNT RATES TO SPECIAL ORDER

FLANGE FIXING DIMENSIONS COMPATIBLE WITH A CONVENTIONAL TACHOGENERATOR (E.G. REO444R)

REPEATER UNIT AVAILABLE FOR TRANSMISSION DISTANCES ABOVE 40M

A RANGE OF SPLITTERS AND SIGNAL CODING/DECODING MODULES TO SUIT ALL REQUIREMENTS

Technical Specification	
Power Supply Voltage	12.5 to 40V DC polarity independent
Power Supply Current	60mA at 24V
Weight including connector	0.11kg
Maximum Speed 500ppr	6000rpm
Operating Temperature	0 to 70°C
Protection	IP64
Humidity	Up to 98% non condensing

Microtach 1000ppr European 5701/1
Microtach 500ppr European 5701/3
Microtach 5000ppr European 5701/5

Plastic fibreoptic cable

Fibreoptic 1mm O/D polymer cored cable ideally suited to industrial applications. Available as a single cored cable or composite (sheathed with two power conductors) in fixed reel sizes.

Single core fibreoptic cable (20m)	CM056316U020
(50m)	CM056316U050
(100m)	CM056316U100
Composite fibreoptic cable (50m)	CM059748U050
(200m)	CM059748U200
Fibreoptic connector (Black) CI055070	
Fibreoptic connector (Red)	CI055069

Microtach Type 5901

An infrared glass fibre version of the microtach offering much greater transmission distances.

INTERNATIONAL 'ST' SYSTEM CONNECTOR

FIXING FLANGE COMPATIBLE WITH A CONVENTIONAL TACHOGENERATOR (E.G. REO444R)

STANDARD 1000 PULSES PER REVOLUTION, OTHER COUNT RATES TO SPECIAL ORDER

Technical Specification	
Power Supply Voltage	12.5 to 35V DC polarity independent
Power Requirement	3W
Weight including connector	0.11kg
Maximum Speed 500ppr	6000rpm
Operating Temperature	0 to 70°C
Protection	IP54
Humidity	Up to 98% non condensing

Microtach 5000ppr European 5901/5

Standard wire-ended encoder

Complementing the microtach this encoder offers the option of a traditional wired feedback device housed in a robust aluminium case with antimagnetic stainless steel shaft.

"MILITARY SPEC" PLUG AND SOCKET CONNECTOR ARRANGEMENT

STANDARD 1000 PULSES PER REVOLUTION, OTHER COUNT RATES TO SPECIAL ORDER

INBUILT LINE DRIVER PROVIDES A 15V DIFFERENTIAL SIGNAL SUITABLE FOR LONG DISTANCE TRANSMISSION

FIXING FLANGE COMPATIBLE WITH A CONVENTIONAL TACHOGENERATOR (E.G. REO444R)

TESTED TO EC DIRECTIVE IEC801 PART 3

Technical Specification	
Power Supply Voltage	8 to 15V DC
Power Supply Current	180mA maximum
Weight	0.65Kg
Maximum Speed (500ppr)	6000rpm
Operating Temperature	0 to 70°C
Protection	IP64
Humidity	Up to 98% non condensing
Max. load per output channel	50mA

Parker SSD Drive Encoder DD385536U010

EMC Filters and Chokes

A range of custom designed optional EMC (ElectroMagnetic Compatibility) filters and line chokes are available for use with the Parker SSD Drives product range. These have been designed to provide cost effective and easily implemented solutions for a variety of standard installations as well as less common requirements such as unusually long cable runs, 500V AC applications and non-earth referenced supplies. All Parker SSD Drives product have been designed to facilitate compliance with EMC Standard BS EN 61800-3:1997 (Incorporating Amendment No.1) - "Adjustable speed electrical power drive systems - Part 3".

When installed in accordance with the relevant manual most products comply without the need for any external EMC filters. The table below summarises compliance to the standard for each product.

Environment 1 relates to drives connected to electrical supplies shared with domestic dwellings

Environment 2 relates to drives connected to electrical supplies not shared with domestic dwellings

TN Supply = Earth Referenced AC Supply up to 460V AC

IT Supply = Non-Earth Referenced AC Supply up to 500V AC

Ext Filter = Filter fitted externally to the drive

Ext FP Filter = Filter fitted externally behind the drive with identical Foot Print and mounting centres to drive

EMC Filters		
Product	Environment 2 (Industrial)	Environment 1 (Domestic)
AC Drives		
650 / 650V		
Frame 1-3	Specify "F" in product code	Specify "F" in product code
650V / 690+		
Frame B	Specify "F" in product code	Specify "F" in product code
Frame C	Standard	TN/IT Supply Ext FP Filter C0467842U044
Frame D	Standard	TN/IT Supply Ext FP Filter C0467842U084
Frame E	Standard	TN/IT Supply Ext FP Filter C0467842U105
Frame F	Standard	TN/IT Supply Ext FP Filter C0467842U215
Frame G/H/J		
(690PG-1100 and 690PG-1320)	Standard	Ext Filter C0467843U340
(690PG-1600 and 690PG-1800) and Frame H and J	Standard	Ext Filters 2 x C0467843U340

A range of filter terminal covers is available for direct wall mounted filters.

Filter Type	Filter Terminal Cover
C0467841U020	BA467840U020
C0467842U020	
C0467841U044	BA467840U044
C0467842U044	
C0467841U084	BA467840U084
C0467842U084	
C0467841U105	BA467840U105
C0467842U105	

Input and Output Chokes for AC Drives

This range of optional AC Input and Output chokes provide additional inductance on the supply side (input) or motor side (output) of the drive.

An input choke may be used to reduce the harmonic content of the supply and provide greater protection against mains borne transients.

An output choke can maintain the radiated EMC emissions levels over motor cable lengths greater than those specified. The extra inductance provided by the output choke can also provide protection against nuisance drive tripping with unusually long cable runs.

AC Drive Chokes				
Output Choke AC Drive Rating (kW)	Input Choke AC Drive Rating (kW)	Choke Inductance	RMS Current Rating (A)	Choke Part Number
0.75-1.5kW	0.75-2.2kW	2mH	7.5A	CO055931
2.2-5.5kW	4-7.5kW	0.9mH	22	CO057283
7.5-11kW	11-15kW	0.45mH	33	CO057284
15kW	18kW	0.3mH	46	CO057285
18-22kW	22-30kW	50uH	70	CO055193
30kW	37kW	50uH	99	CO055253
37-45kW	45-55kW	50uH	145	CO055255
55kW	75kW	50uH	202	CO057960

On start-up, a tutorial style drive set-up menu leads the user a step at a time through a structured commissioning procedure. This ensures that the drive performance is maximised in the shortest time possible without having to navigate through non-applicable parameters or menus. Once running any parameter can be monitored as a digital value or assigned to one of the 4 auto-scaling chart recorder channels. To simplify monitoring the user can also assign any parameter to a personal customised list or view

Both AC and DC drives comprise over one hundred control software function blocks that can be fully interconnected graphically using ConfigEd Lite+. Available function blocks include Maths Functions, Logic Functions, Timers, Comparators and Counters as well as process functions such as Winders and PID control. The drives are dispatched with the function blocks pre-configured as a standard drive so you can operate it straight from the box. Alternatively pick one of the ready-programmed Applications or enjoy the full drive flexibility by interconnecting the blocks to create your own control strategy.



PARAMETERISATION

DIAGNOSTICS

4 CHANNEL CHART RECORDER

FULL FUNCTION BLOCK PROGRAMMING

SINGLE SOFTWARE PACKAGE FOR AC (690+ , 650V)

AND DC (590+) DRIVES

DSD - Drive System Designer

But DSD can go far beyond a configuration tool – the optional “Autoconfigure” function turns DSD into the world's most advanced drive design software. It allows the user to design complete multi drive systems in minutes, designs that previously would have taken days of expert engineering and debugging time. From a standard single line diagram of the machine or process the user simply enters basic parameters (line speed, web tension etc) and functions (winder, nip drive etc) – the software does the rest. Literally hundreds of man-years of drive system expertise are built into DSD – and ready for you to take immediate advantage of.



COMPATIBLE WITH ALL LINK AC AND DC DRIVES

INTUITIVE AND GRAPHICAL THROUGHOUT

SIMPLE CLICK AND DRAG TECHNIQUES

SELF DOCUMENTING

IDEAL FOR BOTH SIMPLE AND HIGHLY COMPLEX DRIVE SYSTEMS

NOTES:

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings present.

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion or control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further information call 00800 22 27 5374

AEROSPACE

Key Markets

- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products

- Flight control systems & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes

CLIMATE CONTROL

Key Markets

- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products

- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves

ELECTROMECHANICAL

Key Markets

- Aerospace
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators, gantry robots & slides
- Electrohydraulic actuation systems
- Electromechanical actuation systems
- Human machine interface
- Linear motors
- Stepper motors, servo motors, drives & controls
- Structural extrusions

FILTRATION

Key Markets

- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

Key Products

- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators

FLUID & GAS HANDLING

Key Markets

- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products

- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

HYDRAULICS

Key Markets

- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

Key Products

- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

PNEUMATICS

Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors

PROCESS CONTROL

Key Markets

- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products

- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds

SEALING & SHIELDING

Key Markets

- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management

Parker

ENGINEERING YOUR SUCCESS.

A photograph showing a person from behind, sitting at a control console in a dimly lit room. The console features several computer monitors displaying various data and graphs. The person is wearing a light-colored jacket. The background is dark and industrial.

A tugboat with the letters 'ICC' on its side is pushing a large container ship. The tugboat is white with a dark hull and has several large tires along its side. The container ship is dark-colored with many colorful containers stacked on top.

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management



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